



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

H P

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,047	08/21/2003	Sampath Purushothaman	YOR920030029US2 (16841)	6546
23389	7590	11/02/2007	EXAMINER	
SCULLY SCOTT MURPHY & PRESSER, PC			GRAYBILL, DAVID E	
400 GARDEN CITY PLAZA			ART UNIT	PAPER NUMBER
SUITE 300			2822	
GARDEN CITY, NY 11530				
		MAIL DATE		DELIVERY MODE
		11/02/2007		PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



UNITED STATES DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10645047 (16841)	8/21/2003	PURUSHOTHAMAN ET AL.	Y0R920030029US2

SCULLY SCOTT MURPHY & PRESSER, PC  
400 GARDEN CITY PLAZA  
SUITE 300  
GARDEN CITY, NY 11530

EXAMINER

David E. Graybill

ART UNIT

PAPER

2822                  20071030

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

Supplemental to the action mailed 10-26-7 to correct erroneous indication of finality in the action 10-26-7.

David E Graybill  
Primary Examiner  
Art Unit: 2822

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7-16-7 has been entered.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the claim 1 feature, "at least one metallic component embedded within an insulating material," and, "said first layer of silicon nitride is non-patterned" must be shown or the features canceled from the claims. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the

several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: There is insufficient antecedent basis for the claim 1 subject matter "at least one metallic component embedded within an insulating material," and, "said first layer of silicon nitride is non-patterned."

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-6, 8-11 and 13-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the

relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The undescribed subject matter is the claim 1 limitation, "at least one metallic component embedded within an insulating material." The undescribed subject matter is also the claim 1 negative limitation, "said first layer of silicon nitride is non-patterned." Any negative limitation or exclusionary proviso must have basis in the original disclosure. See Ex parte Grasselli, 231 USPQ 393 (Bd. App. 1983) aff'd mem., 738 F.2d 453 (Fed. Cir. 1984). The mere absence of a positive recitation or drawing illustration is not basis for an exclusion.

Claims 1-6, 8-11 and 13-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The undescribed subject matter is the claim 1 negative limitation, "said first layer of silicon nitride is non-patterned." To further clarify, one skilled in the art would be unable to make the invention wherein the first layer of silicon nitride is non-patterned because the silicon nitride is necessarily patterned to coat the top of the layered substrate, abut an upper surface of the interconnect layer, cap the at least one metallic component, provide passivation to the metallic component, serve as a diffusion barrier while

providing adhesion to the layered substrate, serve as a protection against a removal process of said carrier assembly and protect from an oxygen-based plasma removal process.

Applicant's amendment and remarks filed 7-16-7 have been fully considered, are treated in the rejections supra, and are further treated infra.

Applicant contends, "The amendment that added the feature that the silicon nitride layer is non-patterned was added to clarify the present invention. This feature is evident in FIG. 2."

This contention is respectfully traversed because the feature that the silicon nitride layer is non-patterned is not evident in FIG. 2. In fact, it is inherent that the silicon nitride layer illustrated in FIG. 2 is patterned at least in the pattern of 201' illustrated in FIG. 2.

The remaining remarks are moot in view of the withdrawal of the relevant prior art rejections.

**For information on the status of this application applicant should check PAIR:**  
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Alternatively, applicant may contact the File Information Unit at (703) 308-2733. Telephone status inquiries should not be directed to the examiner. See MPEP 1730VIC, MPEP 203.08 and MPEP 102.**

Art Unit: 2822

Any other telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (571) 272-1930. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

The fax phone number for group 2800 is (571) 273-8300.

  
David E. Graybill  
Primary Examiner  
Art Unit 2822

D.G.

30-Oct-07